GOVERNMENT OF INDIA
WATER RESOURCES
LOK SABHA

UNSTARRED QUESTION NO:5383
ANSWERED ON:28.04.2003
FLOOD PRONE ZONES
PRIYA RANJAN DASMUNSI

Will the Minister of WATER RESOURCES be pleased to state:

(a) whether his Ministry has identified flood prone districts and zones in the country;

(b) if so, the total number of flood prone districts and zones and the rivers which are causing floods;

(c) whether a comprehensive action plan has been proposed for Tenth Plan to control flood from those rivers which are linked with Bangladesh, Nepal and Bhutan; and

(d) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES (SMT. BIJOYA CHAKRAVARTY)

(a)&(b) The Rashtriya Barh Ayog has assessed 40 m.ha. as flood prone area in the country. The State-wise breakup is at Annex.I.The statewise list of districts identified by RBA for urgent attentionis at Annex.II.Names of the districts affected b y floods are being reported by the Revenue authorities of some of the States alongwith the informationon flood damage.. Based on this information, State-wise list of districts affected by floods at least once during last five years is at Annex. III.The Brahmaputra, Barak and their tributaries and Teesta, Torsa, Jaldhaka in Brahmaputra region, Ganga & Yamuna and their northern as well as southern Bank tributaries in Ganga region, Jhelum, Ravi, Chenab in north west region and Mahanadi, Subarnarekha, Brahmani,Baitarni in Central & Daccan region are mainly causing floods.

(c)&(d) The Government of India is having continuous dialoguewith the neighbouring countries including Bangladesh, Nepal and Bhutan in the field of development of water resources. Sapta Kosi High Dam Multipurpose Project & Sun Kosi Storage cum Diversion Scheme has been agreed with Nepal to be taken up for field investigations, studies and preparation of Detailed Project Report for which a Joint Project Office is being setup in Nepal.The project will interalia have flood control benefits. A scheme on "flood forecasting and warning system on rivers common to India and Nepal" is in operation since 1989. In addition, a Standing Committee on Inundation problems is also functioning for dealing with the problems of Inundation in the vicinity of India and Nepal Border. A joint committee on Water Resources has also been setup to have interaction at higher level pertaining to the cooperation in the field of Water Resources, including implementation of existing agreements and understanding.

As regards Bhutan a "Comprehensive Scheme for Establishmentof Hydrometeorological and Flood Forecasting Network on rivers common to India and Bhutan" having 35 hydro meteorological stations located in Bhutan is in operation. The data received from these stations is utilised for formulating the flood forecasts in India. In respect of Bangladesh, being lower reparian, there are no flood related problems so far as India is concerned.

Annex. I

The State-wise breakup of area liable to floods(as per Rashtriya Barh Ayog)

Sl. No.	State considered by RBA	Area liable to flood(m.ha.)	Area protected (m.ha.) as
1.	Andhra Pradesh	1.39	0.700
2.	Assam	3.15	1.305
3.	Bihar	4.26	1.566
4.	Gujarat	1.39	0.362
5.	Haryana	2.35	1.095

6.	Himachal Pradesh	0.23	-
7	Jammu & Kashmir	0.08	0.012
8.	Karnataka	0.02	0.001
9.	Kerala	0.87	0.011
10.	Madhya Pradesh	0.26	-
11.	Maharashtra	0.23	0.001
12.	Manipur	0.08	0.073
13.	Meghalaya	0.02	0.075
14.	Orissa	1.40	0.351
15.	Punjab	3.70	2.407
16.	Rajasthan	3.26	0.016
17.	Tamil Nadu	0.45	0.029
18.	Tripura	0.33	0.009
19.	Uttar Pradesh	7.34	0.739
20.	West Bengal	2.65	1.001
21.	Delhi	0.05	0.023
22.	Pondicherry	0.01	Neg.
Total		33.52	9.776
Say		34 m.ha.	10.00 m.ha.

>From the above table, the total Flood Prone Area in the country is as below:

a) Flood Prone Area in States	34.0 m.ha.
b) Area protected in States till then	10.0 m.ha.
Area flooded due to failure of protection works which might have been included in reported flooded area(assumed)(-)	4.00 m.ha.
Total flood prone area in the country	40.00 million ha.

Annex. II

LIST OF FLOOD PRONE DISTRICTS IN THE COUNTRYAS REPORTED BY THE RASHTRIYA BARH AYOG (RBA) FOR U ATTENTION

Andhra Pradesh	Khammam, East & West Godavari, mehboob Nagar, Nalgonda, Krishna, Guntur, nellore, Cuddapah and Srikakulam
Assam	Sibsagar, Nowgong, lakhimpur, Darrang, Kamrup, Goalpara, Cachar and Dibrugarh
Bihar	Saharsa, Darbhanga, Muzaffarpur, Monghyr, Purnea, Chapra(Saran), West Champaran(Bettaih), Santhal Pargana, Bhagalpur, Bhojpur(Shahbad), Katihar, madhubani, Sitamarhi, Vaishali, Samastipur, Bagusarai, Patna, Palamau,m Gopalganj, East Champaran(Motohari), Gaya, Siwan, Rohatas, Nalanda and Aurangabad.
Gujarat	Mehsana, Sabarkantha, Junagarh, Kheda, Jamnagar, Rajkot, Valsad, Gandhinagar, Vadodara, Bharuch, Surrendranagar, Bhavnagar, Banaskantha, Amreli, Ahmdabad and Surat
H.P.	Una, kangra and Mandi

J&K	Baramulah, Anantnag and Srinagar
Karnataka	Uttar Kannada and Dakshina Kannada
Madhya Pradesh	Hoshangabad, Sehore, Kharangene, Bhopal and Vidisha
Punjab	Ludhiana, Ferozepur, Sangrur, Faridkot and Amritsar
U.P.	Furrukhabad, kanpur, Allahabad, Varanasi, Gazipur, Ballia, Azamgarh, Hamirpur, Barabanki, aligarh, Mathura, Agra, Saharanpur, Gorakhpur, Muzaffarnagar, Bullandshahr, Meerut, Deoria, Gonda, Sultanpur, Jaunpur, Hardoi, Faizabad, Rai-Bareli, Basti, Lucknow and Bharaich
West Bengal	Darjeeling, Jalpaiguri, West Dinapur, Cooch Bihar, Malda, Murshidabad, Nadia, Birbhum, 24 Paraganas, Hoogly, Midnapore and Burdwan.

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Statewise list of districts affected by flood at least once during last five year i.e. 1998 to 2002

S. No	Bihar	UP	West Bengal	Assam	HP	Gujarat
1	Muzaffarpur	Bahraich	Nadia	Dhemaji	Kangra	Mehsana
2	East Camparan	Kushinagar	Murshidabad	North Lakhimpur	Shimla	Sabarkantha
3	West Champaran	Sant Kabir nagar	Dakshin Dinajpur	Karbi Anglong	Mandi	Navsari
4	Sitamarhi	Bijnour	Burdwan	Jorhat	Solan	Anand
5	Seohar	Gonda	Bankura	Dibrugarh	Sirmaur	Kheda
6	Saran	Deoria	Purlia	Sonitpur	Bilaspur	Jamnagar
7	Siwan	Basti	Midnapur	Golaghat	Kullu	Dahod
8	Gopalganj	Barabanki	Howrah	Dhubri	Hamirpur	Rajkot
9	Darbhanga	Kheri	Hoogly	Bongaigaon	Una	Valsad
10	Samastipur	Farukhabad	24 Parganas(S)	Sibsagar	Chamba	Gandhinagar
11	Madhubani	Kannauj	24 Parganas(N)	Nagaon	Kinnaur	Vadodara
12	Saharsa	Shahjahanpur	Malda	Barpeta	Lahaul	Bharuch
13	Supaul	Hardoi	Uttar Dinajpur	Nalbari	Spiti	Narmada
14	Madhepura	Gorakhpur	Birbhum	Kamrup		Sundarnagar
15	Patna	Sidharthnagar	Kolkatta	Goalpara		Bhavnagar
16	Nalanda	Maharajganj		Tinsukia		Banaskantha
17	Katihar	Chandoli		Morigaon		Amreli
18	Khagaria	Barelli		Halflong		Ahemdabad
19	Begusarai	Azamgarh		Darrang		Dangs
20	Shekhpura			Cachar		Junagarh
21	Lakhi Sarai			Kokrajhar		Kachchh
22	Purnia			Hailakandi		Panchmahal
23	Araria			Karimganj		Patan
24	Kishanganj					Porebandar
25	Bhagalpur					Surat
26	Vaishali					
27	Sahebganj					
28	Jehanabad					
29	Pakur					
30	Mungher					
31	Banka					

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Statewise list of districts affected by flood at least once during last five year i.e. 1998 to 2002

S. No	Arunachal Pradesh	Orissa	Punjab	Mahara-shtra	Rajasthan	Meghalaya
1	Tawang	Angul	Patiala	Gadchiroli	Alwar	Tura

2	West Kameng	Balangir	Kapurthala	Yavatmal	Banswara	Baghmara
3	East Kameng	Balasore	Amritsar	Wardha	Bharatpur	Nongstoin
4	Lower Subansiri	Bhadrak	Faridkot	Chandarpur	Bikaner	Shillong
5	Papumpare	Cuttack	Bhatinda	Bhandara	Churu	Jowai
6	Upper Subansiri	Jagatsinghpur	Monga		Dausa	
7	West Siang	Mayurbhanj	Gurdaspur		Jaipur	
8	East Siang	Kendrapara	Sangrur		Jhalawar	
9	Upper Siang	Nabarangpur	Hoshiarpur		Jhunjhunu	
10	Debang Valley	Nuapada	Mansa		Karauli	
11	Lohit	Sabhalpur			Sawai Madhopur	
12	Changlang	Kalahandi			Nagaur	
13	Tirap	Puri			Kota	
14		Keonjhar			Sikar	
15		Nayagarh			Tonk	
16		Tajpur			Baran	
17		Sundargarh			Bhilwara	
18		Khenkanal			Bundi	
19		Koraput			Cittorgarh	
20					Ganganagar	
21					Jaisalmer	
22					Pali	
23					Barmer	
24					Sirohi	
25					Jaloure	

S.No	Tamilnadu
1	Chennai,
2	Kancheepuram
3	Thiruvananali
4	Villupuram
5	Cuddalore
6	Nagapattinam
7	Thiruvarur
8	Jhanjavur
9	Parambalur
10	Tiruchirapalli
11	Karur
12	Dingigul
13	Pudukkotai
14	Madurai
15	Theni
16	Virudhunagar
17	Sivaganga
18	Ramanathapuram
19	Toothukkundi
20	Tirunnelveli
21	Kanniyakumari
22	The Nilgiris
23	Coimbatore
24	Erode
25	Namakkal
26	Salam
27	Dharamapuri